

CLAIMS

I Claim:

1. A fluid cooled air conditioning system, comprising:
 - a first valve fluidly connected to a chilled fluid supply providing a chilled fluid;
 - a main cooling unit fluidly connected to said first valve;
 - a precooling unit, wherein said precooling unit is positioned to receive return air or to said main cooling unit; and
 - a second valve fluidly connected between said main cooling unit and a chilled fluid return and said precooling unit, wherein said second valve directs said chilled fluid to said precooling unit during periods of high cooling requirements and wherein said second valve diverts said chilled fluid to said chilled fluid return during periods of low cooling requirements.

2. The fluid cooled air conditioning system of Claim 1, wherein said second is a three-way valve.

3. The fluid cooled air conditioning system of Claim 2, wherein said periods of cooling requirements occur when a room temperature exceeds 75 degrees F.

4. The fluid cooled air conditioning system of Claim 1, including a control unit in communication with said first valve and said second valve, wherein said control unit controls said first valve and said second valve.

1

2 5. A method of operating a fluid cooled air conditioning system, comprising
3 the steps of:

4 (a) providing a chilled fluid to a main cooling unit; and

5 (b) directing chilled fluid from said main cooling unit to a precooling unit if a
6 room temperature is greater than a set point.

7

8

9 6. The fluid cooled air conditioning system of Claim 5, wherein said set point
10 is 75 degrees Fahrenheit.

11

12

13 7. The fluid cooled air conditioning system of Claim 5, wherein said
14 precooling unit receives a flow of return air and wherein said main cooling unit
15 receives a flow of precooled air from said precooling unit.

16

17

18

19